



July 10, 2003

**DESIGN MEMORANDUM No. 03-09**  
**TECHNICAL ADVISORY**

**TO:** All Design, Operations, and District Personnel, and Consultants

**FROM:** /s/ Anthony L. Uremovich  
Anthony L. Uremovich  
Design Policy Engineer  
Contracts and Construction Division

**SUBJECT:** Hot Mix Asphalt (HMA) Mixtures

**SUPERSEDES:** Design Memorandum No. 03-06 Technical Advisory

**EFFECTIVE:** September 16, 2003, Letting

I. Non-QC/QA-HMA Mixtures.

The design equivalent single axle loads (ESAL) for these mixture types have been revised. The revisions are as follows:

Type	ESAL Range
A	< 300,000
B	$300,000 \leq \text{ESAL} < 3,000,000$
C	$3,000,000 \leq \text{ESAL} \leq 10,000,000$
D	> 10,000,000

HMA mixtures now specified as type B or C should be changed on the plans where affected by these revisions. Corresponding pay item names in estimates of quantities and cost estimates should also be revised accordingly. The code numbers and pay item names for mixtures A, B, and C are unchanged. The code numbers and pay item names for the new D mixtures are as follows:

304-07783	HMA Patching, Type D
402-07784	HMA Surface, Type D
402-07785	HMA Intermediate, Type D
402-07786	HMA Base, Type D
402-07787	HMA Wedge and Level, Type D
610-07788	HMA for Approaches, Type D

## II. Widening Mixtures.

Widening mixtures will only be HMA mixtures. QC/QA-HMA mixtures should no longer be specified. Where this work is specified as widening with QC/QA-HMA, it must be changed on the plans to widening with HMA of the type described above for the design ESAL. Corresponding pay item names in estimates of quantities and cost estimates must also be revised to those as follows:

304-07492	Widening With HMA, Type A
304-07493	Widening With HMA, Type B
304-07494	Widening With HMA, Type C
304-07789	Widening With HMA, Type D

All Widening With QC/QA-HMA pay items have been obsoleted.

The designer should change the plans according to this technical advisory, based on the ESAL provided in the pavement design. If the ESAL for a certain route or approach are not provided, the designer should contact the Department's Pavement Design Engineer, Kumar Dave, via e-mail [kdave@indot.state.in.us](mailto:kdave@indot.state.in.us) or telephone 317-610-7251 ext. 215, for the applicable ESAL counts. The corresponding Des number and route number or name will be required with the request.

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